

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P193773

Luminaire Tested: **GAN-AF-05-LED-U-SL4-8030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-SL4-8030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15199 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

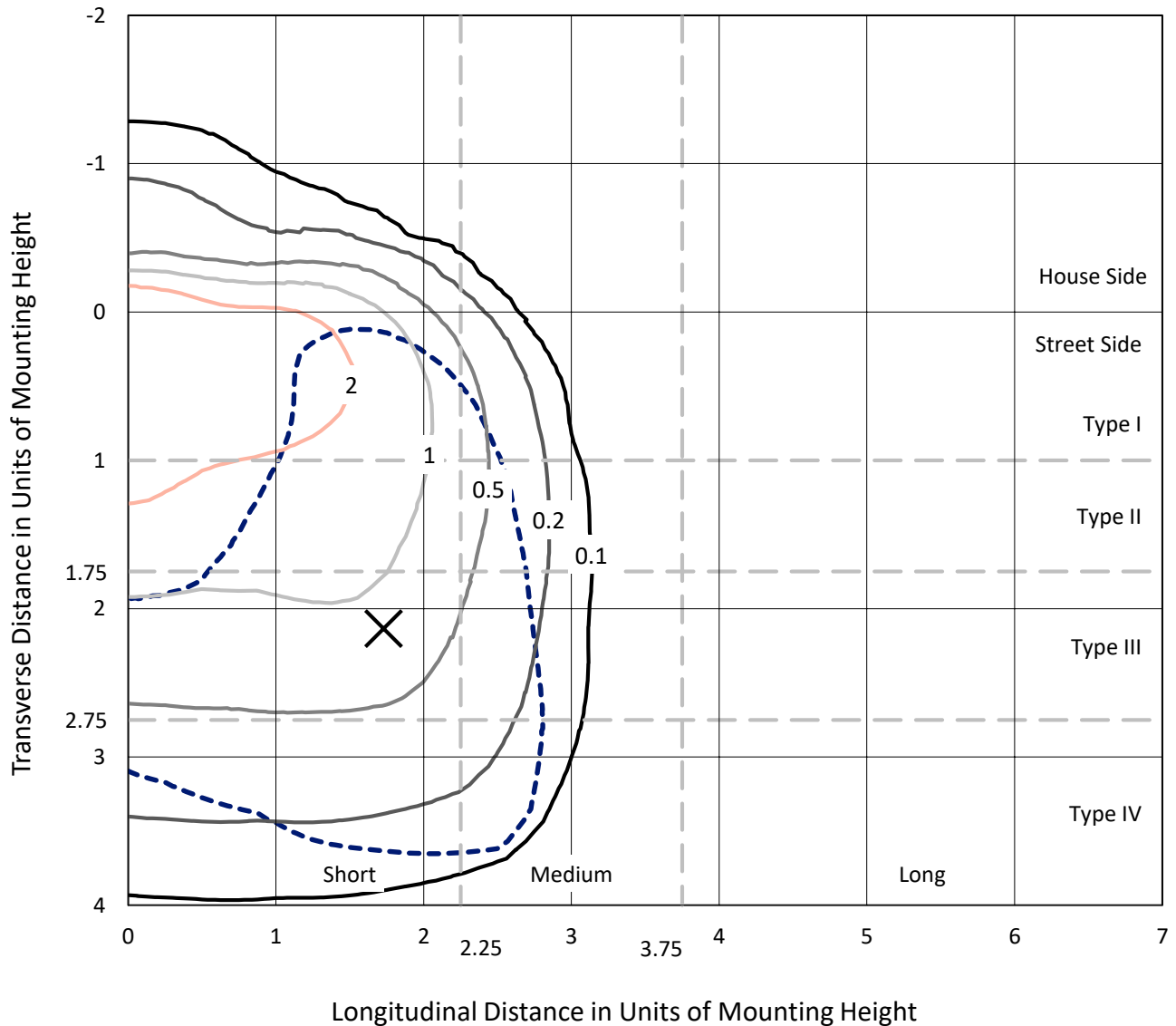


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

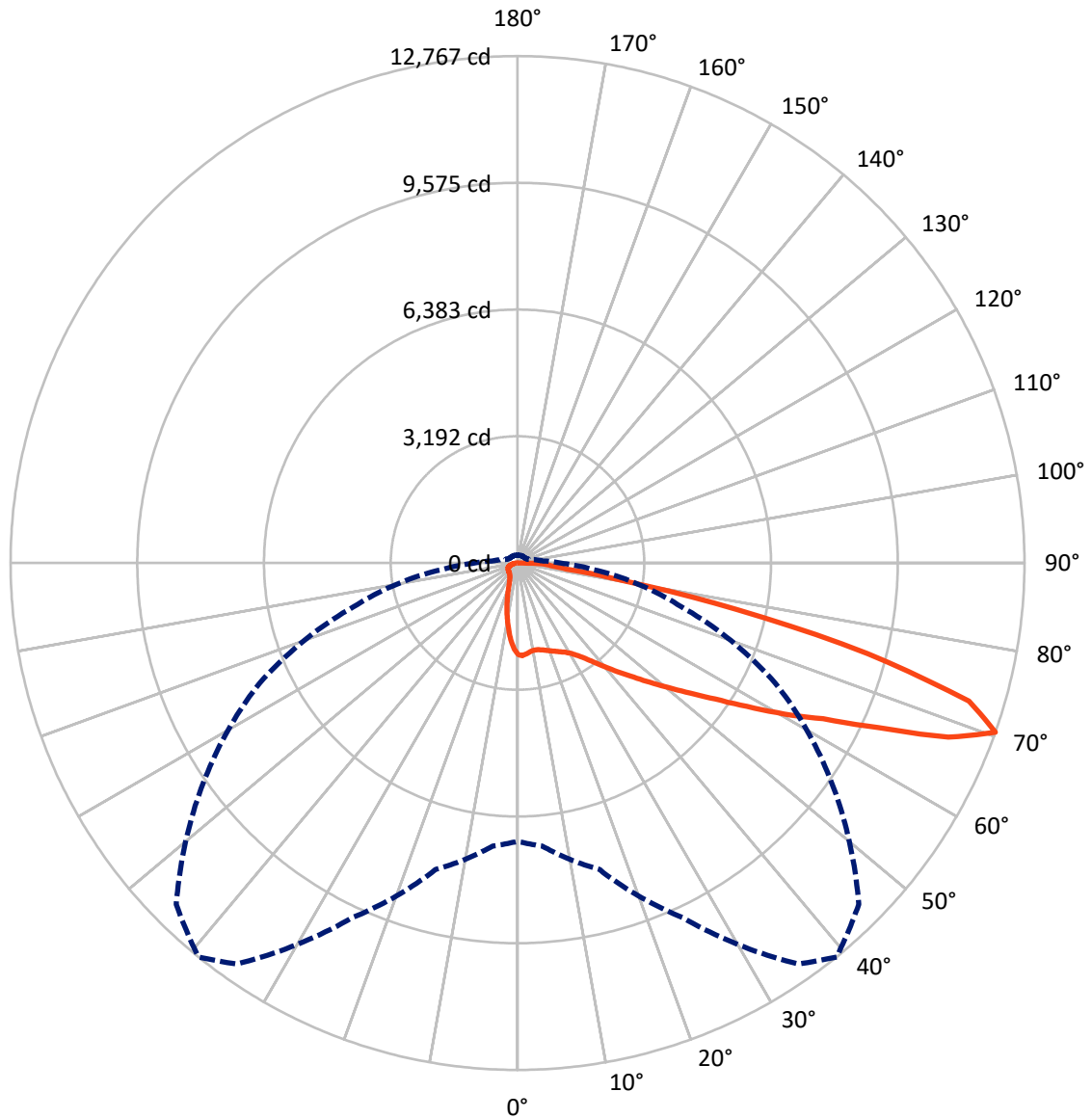


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1728.6	0.0	1728.6
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	13470.4	0.0	13470.4
	% Fixture	88.6	0.0	88.6
Total	Lumens	15199.0	0.0	15199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.0	1.3
10°-20°	495.0	3.3
20°-30°	770.7	5.1
30°-40°	1200.6	7.9
40°-50°	2015.6	13.3
50°-60°	3202.0	21.1
60°-70°	4271.1	28.1
70°-80°	2579.2	17.0
80°-90°	466.8	3.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	15199.0	100.0
0°-180°	15199.0	100.0

Coefficient of Utilization



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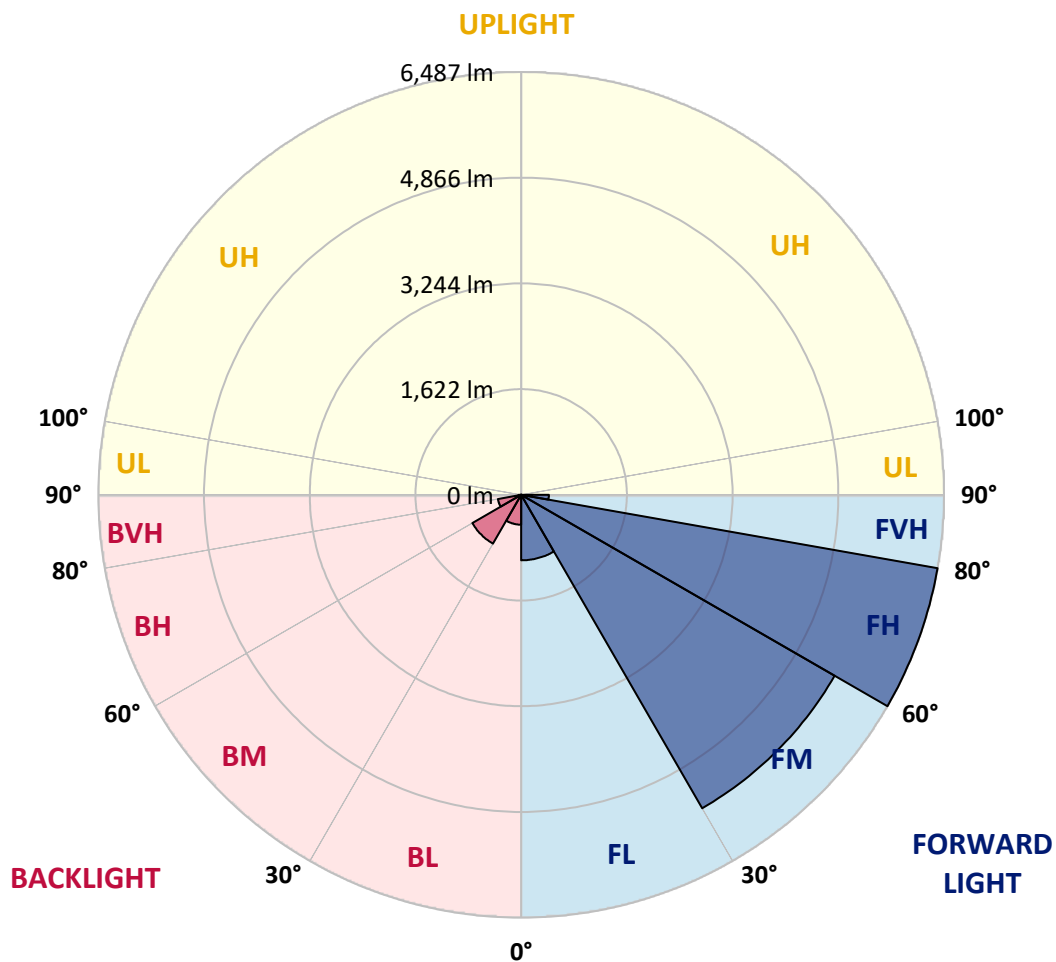
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1005.1	6.6			
FM	(30°-60°)	5553.1	36.5			
FH	(60°-80°)	6487.4	42.7			G3/7500
FVH	(80°-90°)	424.7	2.8			G3/500
BL	(0°-30°)	458.6	3.0	B1/500		
BM	(30°-60°)	865.1	5.7	B1/1000		
BH	(60°-80°)	362.9	2.4	B1/500		G1/500
BVH	(80°-90°)	42.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2307.4	2307.4	2307.4	2307.4	2307.4	2307.4	2307.4	2307.4	2307.4	2307.4	2307.4
2.5°	2352.3	2351.5	2345.3	2340.7	2336.8	2335.3	2338.4	2326.8	2316.7	2304.4	2291.2
5°	2334.5	2333.7	2323.7	2314.4	2305.1	2302.0	2301.3	2280.4	2268.0	2249.5	2224.8
7.5°	2315.2	2311.3	2298.2	2282.7	2266.5	2258.8	2251.0	2224.0	2210.1	2191.5	2162.9
10°	2295.1	2290.4	2278.1	2262.6	2247.2	2235.6	2222.4	2196.2	2181.5	2167.6	2134.3
12.5°	2274.2	2270.4	2267.3	2260.3	2249.5	2239.4	2229.4	2207.0	2191.5	2175.3	2136.7
15°	2271.1	2269.6	2276.5	2281.2	2275.0	2268.8	2258.0	2238.7	2222.4	2206.2	2156.0
17.5°	2295.9	2295.1	2312.9	2325.2	2322.1	2311.3	2296.6	2275.0	2261.9	2247.9	2185.3
20°	2349.9	2353.8	2375.4	2391.7	2376.2	2360.8	2336.8	2306.7	2299.7	2293.5	2215.5
22.5°	2451.9	2455.8	2471.3	2477.4	2437.3	2414.9	2381.6	2343.0	2338.4	2343.0	2251.8
25°	2611.1	2607.3	2605.0	2581.8	2508.4	2473.6	2431.1	2390.9	2393.2	2414.1	2302.8
27.5°	2822.1	2801.2	2768.8	2699.2	2582.5	2543.9	2492.1	2455.0	2469.7	2509.9	2379.3
30°	3040.8	3017.6	2942.6	2829.1	2679.9	2637.4	2579.5	2537.7	2576.4	2639.7	2481.3
32.5°	3243.2	3240.2	3130.4	2984.4	2814.4	2777.3	2719.3	2672.2	2734.8	2831.4	2634.3
35°	3464.3	3471.2	3339.8	3164.4	2996.0	2957.3	2915.6	2880.1	2963.5	3096.4	2856.1
37.5°	3700.7	3714.6	3559.3	3361.5	3203.1	3186.8	3162.1	3146.7	3275.7	3459.6	3166.0
40°	4016.8	4002.9	3787.3	3584.0	3457.3	3456.5	3448.8	3467.3	3682.2	3934.1	3563.9
42.5°	4355.2	4314.3	4029.1	3822.8	3736.3	3762.5	3778.0	3853.7	4171.3	4510.6	4049.2
45°	4720.0	4628.0	4280.3	4075.5	4046.1	4101.8	4154.3	4318.9	4747.0	5166.6	4580.9
47.5°	5011.3	4922.4	4539.9	4340.6	4404.7	4488.9	4590.2	4850.6	5391.5	5844.3	5105.6
50°	5240.8	5182.9	4801.9	4649.7	4799.6	4929.4	5094.8	5452.6	6062.3	6504.3	5591.6
52.5°	5463.4	5420.1	5066.2	4966.5	5263.2	5442.5	5667.4	6098.6	6750.0	7153.4	6000.4
55°	5664.3	5633.4	5350.5	5361.4	5808.8	6042.2	6325.0	6834.2	7499.6	7732.2	6346.6
57.5°	5890.7	5851.3	5675.1	5856.7	6509.7	6812.6	7180.4	7661.1	8202.8	8246.8	6610.1
60°	6118.7	6084.7	6035.2	6428.5	7399.9	7718.3	8066.8	8462.4	8916.0	8646.3	6594.7
62.5°	6316.5	6320.4	6407.7	7029.0	8271.6	8640.2	9065.2	9456.2	9561.3	8715.9	6107.1
65°	6651.9	6712.9	6973.3	7879.0	9498.7	9991.7	10513.3	10450.7	9739.8	8066.0	5061.5
67.5°	7050.6	7158.0	7685.8	9011.9	11049.6	11704.1	11905.8	10675.6	9025.0	6556.8	3608.0
70°	7010.4	7158.0	7993.4	9856.5	12327.7	12766.7	12154.6	9661.7	7166.5	4283.4	1916.4
72.5°	6225.3	6436.3	7366.7	9469.3	11925.1	11886.5	10552.0	7202.8	4257.9	1720.2	748.8
75°	4744.7	4958.0	5758.6	7481.0	9425.3	9100.7	7487.2	3978.9	1615.8	683.1	472.2
77.5°	2729.4	2894.7	3512.9	4587.8	5979.6	5646.5	4167.5	1769.6	786.7	476.0	368.6
80°	1523.9	1615.8	1991.4	2327.5	2930.3	2686.1	1864.7	1099.6	587.3	345.4	284.4
82.5°	1204.7	1286.6	1610.4	1468.2	1338.4	1234.9	1071.0	979.1	469.1	217.9	170.0
85°	1052.5	1130.5	1363.1	1156.0	914.2	838.4	870.1	963.6	364.7	131.4	145.3
87.5°	975.2	1079.5	1214.8	891.0	711.7	630.6	802.9	1056.4	117.5	81.9	58.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2307.4	2307.4	2307.4	2307.4	2307.4	2307.4	2307.4	2307.4	2307.4	2307.4	2307.4
2.5°	2279.6	2267.3	2247.2	2229.4	2201.6	2186.9	2170.7	2159.1	2149.8	2142.1	2154.4
5°	2209.3	2186.1	2143.6	2098.0	2043.9	2001.4	1965.9	1932.7	1909.5	1894.0	1904.8
7.5°	2142.8	2105.0	2038.5	1955.8	1863.1	1784.3	1719.4	1662.2	1622.8	1597.3	1607.3
10°	2105.0	2057.8	1955.1	1825.2	1688.5	1565.6	1463.6	1375.5	1314.5	1279.7	1285.1
12.5°	2095.7	2034.7	1892.5	1714.0	1527.0	1356.2	1212.5	1090.4	1004.6	959.8	961.3
15°	2102.7	2024.6	1833.7	1607.3	1370.9	1155.3	976.0	827.6	727.9	676.9	676.2
17.5°	2114.3	2016.9	1771.9	1492.2	1212.5	962.1	761.9	616.7	528.6	487.6	484.5
20°	2126.6	2004.5	1702.4	1367.8	1047.9	782.8	596.6	483.0	427.3	404.9	403.4
22.5°	2144.4	1993.7	1630.5	1236.4	886.3	637.5	490.7	414.2	384.8	373.2	371.7
25°	2173.0	1988.3	1554.0	1099.6	741.1	533.2	427.3	380.2	363.2	355.5	354.7
27.5°	2220.9	1996.0	1482.1	966.7	622.8	462.9	391.8	363.2	350.8	343.9	343.1
30°	2282.7	2020.0	1406.4	840.8	530.9	415.0	370.1	351.6	341.6	334.6	334.6
32.5°	2385.5	2060.2	1326.8	731.8	465.2	381.7	353.9	341.6	333.1	327.6	326.9
35°	2537.0	2135.9	1252.6	641.4	418.1	357.8	340.0	330.7	324.6	321.5	321.5
37.5°	2757.2	2255.7	1187.0	576.5	389.5	341.6	326.9	319.9	316.1	316.1	316.1
40°	3053.2	2421.0	1133.6	533.2	373.2	330.0	316.8	311.4	309.1	309.9	309.9
42.5°	3418.7	2635.9	1098.1	503.1	365.5	323.0	309.9	305.2	302.9	302.1	302.9
45°	3835.2	2880.1	1094.2	480.7	357.8	318.4	305.2	300.6	296.0	292.9	292.9
47.5°	4240.1	3128.1	1125.9	472.9	349.3	313.0	301.4	296.7	289.8	282.8	282.8
50°	4597.9	3339.1	1168.4	476.0	346.2	305.2	295.2	292.9	282.1	274.3	273.6
52.5°	4882.3	3501.3	1203.2	485.3	349.3	299.8	287.5	288.2	276.6	268.1	267.4
55°	5110.2	3608.0	1193.9	494.6	356.2	296.7	280.5	282.1	272.8	264.3	264.3
57.5°	5209.9	3568.6	1091.1	486.8	361.6	297.5	275.1	281.3	273.6	265.8	265.8
60°	4995.9	3218.5	898.7	452.8	354.7	295.2	272.8	284.4	283.6	275.9	275.1
62.5°	4348.3	2591.8	697.0	402.6	330.7	283.6	266.6	283.6	292.1	289.8	289.0
65°	3351.4	1846.1	532.4	348.5	298.3	264.3	250.4	265.8	277.4	280.5	279.7
67.5°	2175.3	1131.3	410.3	297.5	262.0	241.9	229.5	236.5	238.8	238.8	237.2
70°	1069.5	608.9	326.9	250.4	224.9	217.9	211.0	207.1	203.2	200.1	200.1
72.5°	527.8	398.0	268.9	211.7	194.0	190.9	189.3	184.7	181.6	177.7	176.2
75°	390.2	323.8	228.7	178.5	166.9	163.8	166.9	163.1	162.3	159.2	157.6
77.5°	320.7	275.9	197.1	153.0	143.0	137.6	142.2	143.0	143.7	139.1	137.6
80°	260.4	233.4	164.6	126.7	117.5	113.6	116.7	122.9	124.4	117.5	114.4
82.5°	187.8	190.9	132.9	98.9	91.2	88.1	94.3	102.0	103.5	93.5	91.2
85°	157.6	159.2	102.0	70.3	62.6	58.0	68.0	75.7	81.1	71.1	68.8
87.5°	65.7	93.5	58.7	39.4	34.8	30.1	36.3	40.2	48.7	44.8	44.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)